

Technical Data Sheet

K214 General Purpose Epoxy Adhesive System



DESCRIPTION:

K214 is a versatile epoxy adhesive with good handling properties for many applications.
For a higher performance use K106.

TYPICAL FEATURES | BENEFITS:

- Simple 2:1 Mix
- Interior | exterior application.
- User friendly.
- Gel consistency | Won't run.
- Cure above +12°C.
- Bonds to many surfaces.
- Gap filling.

PERFORMANCE DATA:

Properties		Values
Minimum application temperature: Air		+12°C
Flash point:	~ Resin ~ Hardener	>176°C >200°C
Tensile strength:		12 - 16MPa
Water Absorption % @ w/w:		0.7 - 0.9
Compressive strength:		70 - 80 MPa
Flexural strength:		30 - 40 MPa
Maximum operating temperature:		+60°C
Adhesion Properties to correctly prepared surface:		
	~ Composites	Excellent
	~ Concrete	Excellent
	~ Metal	Excellent
	~ Rubber	Very Good
	~ Timbers	Excellent
Appearance:	~ Resin ~ Hardener	Milky White Gel Amber Thixotropic Gel
SG kg/litre:	~ Resin ~ Hardener	1.15 0.96
Density Kg/Litre -cured:		1.05
Coverage:		Use as required: (0.001m ³ = 1 Litre) e.g. 1 litre covers 1m ² @ 1mm thick 3m ² /Litre is normal depending on gap filling required. 3m ² /Litre 2 - 3m ² /Litre 4 - 5m ² /Litre
Pot Life: (Usable Life) Pot life is based on 100gram samples. Large quantities of mixed epoxy will generate heat and the pot life may be significantly reduced.	+15°C– 50%RH +20°C– 50%RH	100 - 140 minutes 60 - 80 minutes
Cure Time:	+20°C –50%RH	24 hours
Clean up:	Wash hands with warm soapy water after any skin contact Solvent HA for tools	
NZ Dangerous Goods Class:	~ K214	Refer: SDS
Packaging:	~ K214 Kits	1.5 Litre 6 Litre
Shelf Life:	24 months from date of manufacture. (After this period consult with allnex).	

RECOMMENDED USES:

- Bonds Concrete | Metals | Timbers | Composites | Some plastics.
- Boat Building.
- Laminates Plywood.
- Flooring adhesive for timber flooring.
- Construction | Industrial uses.
- Golf club heads.
- Flooring adhesive for rubber to concrete or timber.
- Flooring adhesive for most rigid vinyl tiles.

NOT RECOMMENDED:

- Application below +12°C air temperature.
- Bonding Polypropylene and polyethylene.
- Application to incorrectly prepared surfaces.

HEALTH & SAFETY: Refer safety data sheets (SDS).

- Wear gloves wherever possible.
- Wash hands with warm, soapy water after any skin contact.
- Re-seal all containers tightly.

SURFACE PREPARATION:

The surface to be filled/repared must be clean and sound.

Remove all dust, dirt, oil, scale, laitance, paint or any other contaminates.

Concrete: Acid etch | Shot blast | Diamond grind | Needle gun.

Metals: Degrease with Acetone > Abrade with medium grit abrasive paper > Degrease with Acetone again.

Timber: Prepare by way of mechanical sanding using 80 grit paper.

Composites: Degrease > Mechanically abrade > Degrease.

MIXING RATIO**K214 Mixing Ratio - By weight**

Element	Value
Resin	2 part
Hardener	1 part

K214 Mixing Ratio - By volume

Element	Value
Resin	2 part
Hardener	1 part

Refer: Cautions Section

The mix ratio must not be altered.

The mix ratio is the only acceptable formula.

Adding more hardener will make the mix softer and it will be uncured.

Increased hardener levels will result in a weaker product.

MIXING METHOD:

Carefully mix the product according to the stated mix ratio.

Mix until uniform and no streakiness is evident.

APPLICATION METHOD:

Notched Trowel | Spatula

General bonding:

Apply the mixed adhesive to the substrate with a notched trowel at the recommended spread rate.

Clamp surfaces together for curing period, or hold without movement for required cure period.

Rubber flooring:

Apply the mixed adhesive to the substrate with a notched trowel at the recommended spread rate and roll flooring in the wet adhesive.

Materials with a "memory" may need to be weighted down during the curing phase.

Timber flooring:

Apply the mixed adhesive to the substrate with a notched trowel at the recommended spread rate and apply the timber into the wet adhesive.

Some timbers may need to be weighted down during the curing phase.

Vinyl tiles:

Apply the mixed adhesive to the substrate with a notched trowel at the recommended spread rate and lay the tiles into the wet adhesive. Roll heavily in all cases, before the adhesive sets.

Note

May be tinted with B1TTP colour pastes.

CAUTION:

K214 is a two part epoxy that is mixed in the specified ratio. Only this ratio will produce a hard, non-softening product. Adding more hardener (with the aim of making the product cure faster) will not work and will only result in making the product softer. The more hardener that is added, then the softer it will become. No matter how long it is left, it will never harden.

Only the stated mix ratio will work and exhibit the stated performance data.

OTHER EPOXIES AVAILABLE:

- K36 - Clear Laminating Resin.
- K78 - Crack Repair.
- K80 - Pourable Grout.
- K83 – Machinable Epoxy Grout
- K102 - High Viscosity Mortar.
- K106 - Structural 24 hour Adhesive.
- K125 - Concrete Repair Paste.
- K130 - Control Joint Filler.
- K138- High Strength, Structural Heat Resistant Adhesive.
- K214 - General Purpose Adhesive
- K219- Structural 5 Minute Adhesive.
- K273- Underwater Cure Mortar.
- K2005 - High Peel Strength Structural Adhesive.
- Fairing Cream - Sandable Smoothing Paste.
- Truestik EA - Flexible Adhesive – Multipurpose.

EPOXY SELECTION:

Refer: Epoxy Selection Chart.

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